## **Listing of Claims:**

Please cancel claims 1-7, and add new claims 8-14 as follows:

1-7. (Canceled Herein)

---8. (New) A method of reducing the amount of phosphorus in cow manure, which comprises:

substituting a  $1\alpha$ -hydroxylated vitamin D compound for some or all of the inorganic phosphorus in a diet of a cow; and

feeding said diet to said cow.

- 9. (New) The method of claim 8 wherein said diet includes a feed, and said 1α-hydroxylated vitamin D compound is fed as a top dressing on said feed.
- 10. (New) The method of claim 8 wherein said effective amount of the 1α-hydroxylated vitamin D compound comprises about 0.1μg/kg to about 100μg/kg of diet.
- 11. (New) The method of claim 8 wherein said diet includes a feed, and said feed contains 0% by weight of an inorganic phosphorus supplement.
- 12. (New) The method of claim 8 wherein said  $1\alpha$ -hydroxylated vitamin D compound is characterized by the following general structure:

$$X_{10}$$
 $X_{10}$ 
 $X_{2}$ 
 $X_{2}$ 

where  $X_1$  may be hydrogen or a hydroxy-protecting group,  $X_2$  may be hydroxy, or protected hydroxy,  $X_3$  may be hydrogen or methyl,  $X_4$  and  $X_5$  each represent hydrogen or taken together  $X_4$  and  $X_5$  represent a methylene group, and where Z is selected from Y,

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-OY, -CH<sub>2</sub>OY, -C≡CY and -CH=CHY, where the double bond may have the cis or trans stereochemical configuration, and where Y is selected from hydrogen, methyl, -CR<sub>5</sub>O and a radical of the structure:

$$-(CH_2)_m$$
  $C$   $CH_2)_n$   $C$   $R^3$   $R^4$ 

where m and n, independently, represent integers from 0 to 5, where  $R^1$  is selected from hydrogen, hydroxy, protected-hydroxy, fluoro, trifluoromethyl, and  $C_{1-5}$ -alkyl, which may be straight chain or branched and, optionally, bear a hydroxy or protected-hydroxy substituent, and where each of  $R^2$ ,  $R^3$  and  $R^4$ , independently, is selected from hydrogen,—fluoro, trifluoromethyl and  $C_{1-5}$  alkyl, which may be straight-chain or branched, and optionally bear a hydroxy or protected-hydroxy substituent, and where  $R^1$  and  $R^2$ , taken together, represent an oxo group, or an alkylidene group,  $=CR_2R_3$ , or the group  $-(CH_2)_p$ -, where p is an integer from 2 to 5, and where  $R^3$  and  $R^4$ , taken together, represent an oxo group, or the group  $-(CH_2)_q$ -, where q is an integer from 2 to 5, and where  $R^5$  represents hydrogen, hydroxy, protected-hydroxy, or  $C_{1-5}$  alkyl.

- 13. (New) The method of claim 8 wherein the vitamin D compound is  $1\alpha$ -hydroxyvitamin D<sub>3</sub>.
- 14. (New) The method of claim 8 wherein the vitamin D compound is  $1\alpha,25$ -dhydroxyvitamin D<sub>3</sub>.---